

AMENDMENT TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A functional fiber sheet comprising synthetic fiber, one face or both faces thereof being coated with a physically vapor-deposited film having a transparency of at least 30% at a wavelength of 550 nm comprising metallic oxides, wherein said metallic oxides comprise a mixture of principal oxides containing oxygen in -2 valence state as a main component and a small amount of oxides having a lower valence than the principal oxides as a secondary component, wherein the amount of lower valence oxides is about 0.1 to 20 wt% of the mixture; and wherein the thickness of the physically vapor-deposited film is about 5 to 500 nm.

2. (Canceled).

3. (Previously Presented) The functional fiber sheet described in Claim 1 wherein said metallic oxide is titanium oxide, its principal oxide being a tetravalent oxide and wherein said lower valence oxides are divalent or trivalent oxides.

4. (Currently Amended) A method for manufacturing ~~a functional fiber~~ the sheet of claim 1 comprising the steps of :

forming a physically vapor-deposited film of metallic oxides on a fiber sheet through a physical vapor deposition process;

forming principal oxides containing oxygen in -2 valence state as a main component of the metallic oxides of the physically vapor-deposited film by increasing the amount of oxygen to be supplied during the physical vapor deposition process; and

forming a small amount of oxides having a lower valence than the principal oxides as a secondary component of the metallic oxides by lowering the amount of oxygen to be supplied to the physical vapor deposition process.

5. (original) The functional fiber sheet as set forth in Claim 1 wherein the synthetic fiber comprises synthetic fiber used in usual knit and woven use.

6. (original) The functional fiber sheet as set forth in Claim 1 wherein the synthetic fiber comprises polyester fiber, nylon fiber, acrylic fiber or polyimide fiber.

AMENDMENT TO THE ABSTRACT:

~~The first sheet coated with physically vapor deposited film, make vapor deposited film transparent so color and pattern on the fiber sheet are visible, furthermore, provide electric conductivity to vapor deposited film, moreover, improve productivity of vapor deposition, further, enable selective blocking of infrared and ultraviolet radiation.~~

~~In fiber sheet comprising synthetic fiber, one face or both faces thereof being coated with physically vapor deposited film comprising metallic oxides, aforementioned metallic oxides comprising mixture of ordinary oxides as a main component, containing a small amount of oxides having lower valence than the ordinary oxides [as a secondary component], low valence oxide content being 0.1 ~ 20 wt% of total amount of metallic oxides, thickness of aforementioned physically vapor deposited film being 5 ~ 500nm.~~

A functional sheet coated with physically vapor-deposited film comprising titanium oxide and other metallic oxides for making the film transparent so color and pattern on the fiber sheet are visible, providing electric conductivity to the film, improving the productivity of vapor deposition and enabling selective blocking of infrared and ultraviolet radiation.